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1 [Level set and PDE methods for computer graphics](#)



David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(17.07 MB) Additional Information: [full citation](#), [abstract](#)

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

2 [Query processing in a multimedia document system](#)



Elisa Bertino, Fausto Rabbiti, Simon Gibbs

January 1988 **ACM Transactions on Information Systems (TOIS)**, Volume 6 Issue 1

Publisher: ACM Press

Full text available: pdf(2.94 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Query processing in a multimedia document system is described. Multimedia documents are information objects containing formatted data, text, image, graphics, and voice. The query language is based on a conceptual document model that allows the users to formulate queries on both document content and structure. The architecture of the system is outlined, with focus on the storage organization in which both optical and magnetic devices can coexist. Query processing and the different strategies ...

3 [An experimental system for creating and presenting interactive graphical documents](#)



S. Feiner, S. Nagy, A. van Dam

January 1982 **ACM Transactions on Graphics (TOG)**, Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(3.53 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
Keywords: maintenance and repair, pictorial information systems



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- 1 [Digital libraries and cyberinfrastructure track: creating information representations for the humanities \(part 1\): Finding a catalog: generating analytical catalog records from well-structured digital texts](#)

David Mimno, Alison Jones, Gregory Crane

June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available: pdf(210.23 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One of the criticisms library users often make of catalogs is that they rarely include information below the bibliographic level. It is generally impossible to search a catalog for the titles and subjects of particular chapters or volumes. There has been no way to add this information to catalog records without exponentially increasing the workload of catalogers. At the same time, well-structured full-text XML transcriptions of printed works are becoming increasingly available. This paper descri ...

Keywords: analytical cataloging, information extraction, library automation

- 2 [HieNet: a user-centered approach for automatic link generation](#)

Daniel T. Chang

December 1993 **Proceedings of the fifth ACM conference on Hypertext**

Publisher: ACM Press

Full text available: pdf(1.14 MB) Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)**Keywords:** SGML, link apprentice, link generation, links, vector space model

- 3 [Reprint: Reflections on NoteCards: seven issues for the next generation of hypermedia systems](#)

Frank G. Halasz

August 2001 **ACM Journal of Computer Documentation (JCD)**, Volume 25 Issue 3

Publisher: ACM Press

Full text available: pdf(1.68 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

NoteCards, developed by a team at Xerox PARC, was designed to support the task of


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2 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

 Full text available: pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 [Level II technical support in a distributed computing environment](#)



Tim Leehane

 September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**

Publisher: ACM Press

 Full text available: pdf(5.73 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

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[The "growing up" of HyperBraille—an office workspace for blind people](#)



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1 [Multimedia authoring: Linking multimedia presentations with their symbolic source](#)



[documents: algorithm and applications](#)

Berna Erol, Jonathan J. Hull, Dar-Shyang Lee

November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: [pdf\(472.17 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An algorithm is presented that automatically matches images of presentation slides to the symbolic source file (e.g., PowerPoint™ or Acrobat™) from which they were generated. The images are captured either by tapping the video output from a laptop connected to a projector or by taking a picture of what's displayed on the screen in a conference room. The matching algorithm extracts features from the image data, including OCR output, edges, projection profiles, and layout and determine ...

Keywords: document linking, e-learning, meeting recording, multimedia meeting room, presentation recording, synchronization

2 [A self-organized file cabinet](#)



Dawn Lawrie, Daniela Rus

November 1999 **Proceedings of the eighth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: [pdf\(1.48 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The self-organizing file cabinet is an information retrieval system associated with a user's physical file cabinet. It enhances a physical file cabinet with electronic information about the papers in it. It can remember, organize, update, and help the user find documents contained in the physical file cabinet. The system consists of a module for extracting electronic information about the papers stored in the file cabinet, a module for representing and storing this information in mu ...

3 [Geographic Data Processing](#)



George Nagy, Sharad Wagle

June 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 2

Publisher: ACM Press

Full text available: [pdf\(4.20 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)